

**ABSTRACT OF THE DISCLOSURE**

A digital camera employs an image sensor with color filters that correspond to individual pixels of the sensor. Image data detected by the sensor is recorded, together with data regarding the alignment of the color filters. The image data and the recorded alignment data are transmitted to a device external to the camera, where the image data is interpolated to produce complete color data for each pixel of the image. The complete color data is used to display the image. By means of this technique, the camera only needs to store and transmit the original image data, rather than interpolated complete image data. In addition, various interpolation processes can be employed in the external device, according to the particular desires of the user.